Claim Amendments

Amend the claims as follows:

1. (Currently amended) A process for the work-up of a mixture comprising ionic liquids and a further polar, high boiling compound ~~substance~~, wherein the ~~substance~~ polar, high boiling compound ~~present~~ is ~~separated off~~ removed from the ionic liquids by ~~means of~~ adsorptive separation ~~processes~~.

2. (Original) A process as claimed in claim 1, wherein the separation is carried out by means of ion exchange.

3. (Original) A process as claimed in claim 1, wherein the separation is carried out by means of chromatography.

4. (Original) A process as claimed in claim 3, wherein the separation is carried out by means of a continuous chromatographic process.

5. (Cancelled)

6. (Previously amended) A process as claimed in claim 1, wherein water, methanol, ethanol, 1-propanol or isopropanol or a mixture thereof is used as solvent.

7. (Previously amended) A process as claimed in claim 1, wherein reversed phase silica gels, resins, ion exchangers, zeolites, aluminum oxides or activated carbon are used as stationary phases.

8. (New) An adsorption separation process for removal of a polar, high boiling compound from an ionic liquid of anion and cation, the cation comprising at least one five-or six-membered heterocycle containing at least one phosphorus or nitrogen atom; the process comprising a first step of contacting the ionic liquid with a resin, and a second step of separating the ionic liquid from the resin.

9. (New) The separation process of claim 8, wherein the resin is at least one of an ion exchange resin and an absorption resin.

10. (New) The separation process of claim 8, wherein the separation is carried out by chromatography.

11. (New) The separation process of claim 8, further comprising a step of removing low boiling compounds by evaporation.

12. (New) The separation process of claim 8, wherein water, methanol, ethanol, 1-proponol, isopropanol or a mixture thereof is used as solvent.

13. (New) The separation process of claim 8, wherein the anion is a halide.